

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**  
MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

**UNDERGROUND INJECTION CONTROL**

Permit No.	UI-0000035
Owner:	Brenntag Mid South, Inc.
Address:	Box 20, Henderson, KY 42419-0020
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Brenntag/HCI Chemtech Facility
Facility Address:	2235 W. Battlefield Rd., Springfield, MO 65807
Legal Description:	SW ¼, NE ¼, Sec. 3, T28N, R22W, Greene County
Receiving Stream:	Groundwater to South Creek (U)
First Classified Stream and ID:	South Creek (P) 03369
USGS Basin & Sub-watershed No.:	1101002-020001

**FACILITY DESCRIPTION**

Underground Injection – SIC # 7389

Injection of molasses and possibly other chemicals to remediate Trichloroethene and related chlorinated solvents present in subsurface. Injection by direct push method. The area is about three acres in size. The depth of injection will be less than 50 feet.

August 26, 2005

Effective Date

A handwritten signature in black ink, reading "Doyle Childers".

Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

August 25, 2010

Expiration Date

Edward Galbraith, Director of Staff, Clean Water Commission

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 7	
					PERMIT NUMBER UI-0000035	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS				MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Preproject Condition of Groundwater</u>						
Flow	MGD	*			once before injection	24 hour estimate
Tetrachloroethylene (PCE)	µg/L	*			once before injection	grab
1,1 Dichloroethane (1,1, DCA)	µg/L	*			once before injection	grab
1,1,2 Trichloroethane (1,1,2, TCA)	µg/L	*			once before injection	grab
1,1,1, Trichloroethane ( 1,1,1, TCA)	µg/L	*			once before injection	grab
1,1 Trichloroethene (1,1, TCE)	µg/L	*			once before injection	grab
1,1 Dichloroethene (1,1, DCE)	µg/L	*			once before injection	grab
1,2, Dichloroethane (1,2, DCA)	µg/L	*			once before injection	grab
CIS 1,2 Dichloroethene (CIS 1,2 DCE)	µg/L	*			once before injection	grab
Trans 1,2 Dichloroethene (Trans 1,2 DCE)	µg/L	*			once before injection	grab
Benzene	µg/L	*			once before injection	grab
BETX, Total	µg/L	*			once before injection	grab
Methyl Tertiary Butyl Ether (MTBE)	µg/L	*			once before injection	grab
Methylene Chloride	µg/L	*			once before injection	grab
Vinyl Chloride	µg/L	*			once before injection	grab
pH - Units	SU	*			once before injection	grab
MONITORING REPORTS SHALL BE SUBMITTED UPON REQUESTING PERMIT TERMINATION.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 7	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Post Project Condition of Groundwater</u>						
Flow	MGD	*			once at end of project	24 hour estimate
Tetrachloroethylene (PCE)	µg/L	5.0			once at end of project	grab
Trichloroethene (TCE)	µg/L	5.0			once at end of project	grab
1,1 Dichloroethane (1,1, DCA)	µg/L	*			once at end of project	grab
1,1,2 Trichloroethane (1,1,2, TCA)	µg/L	5.0			once at end of project	grab
1,1,1, Trichloroethane ( 1,1,1, TCA)	µg/L	200			once at end of project	grab
1,1 Trichloroethene (1,1, TCE)	µg/L	*			once at end of project	grab
1,1 Dichloroethene (1,1, DCE)	µg/L	7			once at end of project	grab
1,2, Dichloroethane (1,2, DCA)	µg/L	*			once at end of project	grab
CIS 1,2 Dichloroethene (CIS 1,2 DCE)	µg/L	70			once at end of project	grab
Trans 1,2 Dichloroethene (Trans 1,2 DCE)	µg/L	100			once at end of project	grab
Benzene	µg/L	5			once at end of project	grab
BETX, Total	mg/L	0.75			once at end of project	grab
Methyl Tertiary Butyl Ether (MTBE)	µg/L	20			once at end of project	grab
Methylene Chloride	µg/L	1600			once at end of project	grab
Vinyl Chloride	µg/L	2.0			once at end of project	grab
pH - Units	SU	**			once at end of project	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY. THE FIRST REPORT IS DUE <u>JANUARY 28, 2006</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

\* Monitoring requirement only.

\*\* pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.

### C. SPECIAL CONDITIONS

1. This permit can only be terminated when the concentrations of each of the above named chlorinated solvents or other chemicals is at or below original preproject levels.
2. This permit does not allow for the surface discharge of any water. If permittee desires to discharge water to the surface, an NPDES State Operating Permit must first be obtained.

### STANDARD CONDITIONS FOR UNDERGROUND INJECTION CONTROL PERMIT

#### GENERAL CONDITIONS

#### Section A – Monitoring And Reporting

1. Representative Sampling
  - a. Samples and measurements taken as required herein shall be representative of the nature and volume. Monitoring results shall be recorded and reported, postmarked no later than the 28<sup>th</sup> day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the appropriate regional office and the Division of Geology and Land Survey, P.O. Box 250, Rolla, Missouri 65401.
2. Definitions

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.
3. Test Procedures

Test procedures for the analysis of pollutants shall be in accordance with the Missouri Clean Water Commission Effluent Regulation 10 CSR 20-7.015.
4. Recording of Results
  - a. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
    - i. The date, exact place, and time of sampling or measurements;
    - ii. The individual(s) who performed the sampling or measurements;
    - iii. The date(s) analyses were performed;
    - iv. The individual(s) who performed the analyses;
    - v. The analytical techniques or methods used; and
    - vi. The results of such analyses.
  - b. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or both.
  - c. Calculations of all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.
5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monitoring Report Form. Such increased frequency shall also be indicated.

## Section A – Monitoring And Reporting (continued)

### 6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

## Section B – Management Requirements

### 1. Noncompliance Notification

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such condition:
  - i. A description of the violation and cause of noncompliance, and
  - ii. The period of noncompliance, including exact dates and times or, if not corrected, that anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.
- b. Twenty-four hour reporting. The permittee shall report any noncompliance, which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

### 2. Facilities Operation

Permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions.

### 3. Adverse Impact

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

### 4. Removed Substances

Solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of waters shall be disposed of in a manner such as to prevent any pollutants from entering waters of the state unless permitted by the Law, and a permanent record of the date and time, volume and methods of removal and disposal of such substances shall be maintained by the permittee.

## Section B – Management Requirements (continued)

### 5. Right of Entry

For the purpose of inspecting, monitoring, or sampling the injection wells, point source, water contaminant source, or wastewater treatment facility for compliance with the Clean Water Law and these regulations, authorized representatives of the Department shall be allowed by the permittee, upon presentation of credentials and at reasonable times:

- a. to enter upon permittee's premises in which an injection well, point source, water contaminant source, or wastewater treatment facility is located or in which any records are required to be kept under terms and conditions of the permit;
- b. to have access to, or copy any records required to be kept under terms and conditions of the permit;
- c. to inspect any monitoring equipment or method required in the permit;
- d. to inspect any collection, treatment, or discharge facility covered under the permit; and
- e. to sample any wastewater at any point in the collection system or treatment process.

### 6. Permits Transferable

- a. Subject to section (3) of 10 CSR 20-6.010 an operating permit may be transferred upon submission to the Department of an application to transfer signed by a new owner. Until such time as the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department, within thirty (30) days of receipt of the application shall notify the new permittee of its intent to revoke and reissue or transfer the permit.

### 7. Availability of Reports

Except for data determined to be confidential under the Missouri Clean Water Commission Regulation for Public Participation, Hearings and Notice to Governmental Agencies 10 CSR 20-6.020, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by statute, operating data shall be subject to the imposition of criminal penalties as provided for in Section 644.076 of the Law.

### 8. Permit Modifications

- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
  - i. violation of any terms or conditions of this permit or the Law;
  - ii. having obtained this permit by misrepresentation or failure to disclose fully all relevant facts;
  - iii. a change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge, or
  - iv. any reason set forth in the Law and Regulations.

### 9. Civil and Criminal Liability

Except as authorized by statute nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

Section B – Management Requirements (continued)

10. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.

11. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of or violation of federal, state or local laws or regulations.

12. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.

13. Signatory Requirement

All reports or information submitted to the Director shall be signed.

14. Rights Not Affected

Nothing in this permit shall affect the permittee's right to appeal or seek a variance from applicable laws or regulations as allowed by law.

15. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.